



# **Grain Transportation Report**

A weekly publication of the Transportation and Marketing Programs/Transportation Services Branch www.ams.usda.gov/tmdtsb/grain

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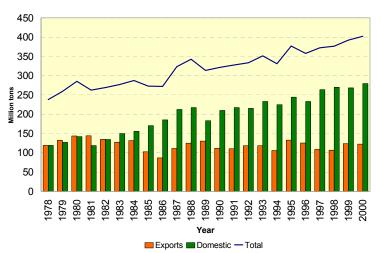
The next release is Oct. 28, '04

Grain Transportation Update. Union Pacific's (UP) grain car loadings during the week ending October 9, 2004, increased 5 percent from the previous week and were 12.5 percent below its 3-year average; Burlington Northern Santa Fe's (BNSF) grain car loadings were about the same as the previous week and 3.4 percent above its 3-year average. Bids in the rail car forward market indicate that shippers expect rail car shortages during November. Average bids (over the rail tariff) for November delivery during the week ending October 15 were \$181 per car on the BNSF and \$187 per car on the UP (see table 6 inside). Shippers in the Upper Midwest report that guaranteed rail cars are 5 to 10 days late and that shuttle trains to the PNW, which normally take 8 days for a round trip, now require 10 days. Barge grain volume on the Upper Mississippi, Ohio, and Arkansas Rivers for the week ending October 9 is up 2 percent from the 3-year average; 2004 year-to-date volume is down 16 percent (see table 9 inside). Marvin.Prater@usda.gov

#### New Study Shows Trends for Mode of Transport for Domestic and Export Grain Markets.

The recently released report from the Transportation and Marketing Programs, *Transportation of U.S. Grains: A Modal Share Analysis, 1978-2000* provides an analysis of grain movements by rail, barge, and truck. The report shows that the principal transportation mode for the domestic grain market is truck, while

Figure 1 -- Total grain movements to domestic and export markets, 1978-2000



Source: Transportation of U.S. Grains: A Modal Share Analysis, 1978-2000

the principal mode for the export grain market is barge. In 2000, truck movements represented almost two-thirds of the domestic grain transportation market, while rail handled about one-third and barge represented a small percentage of all movements. Conversely, in the export grain market, barge shipments represented 56 percent of export grain movements in 2000, with rail shipments accounting for 31 percent and truck shipments accounting for 13 percent. As U.S. grain production continues to exceed domestic requirements, agricultural export markets are important for sustaining prices

and farm income. Export volumes are likely to fluctuate due, in part, to changing U.S. dollar exchange rates and increased competition from foreign grain producers. Figure 1 shows total grain movements from 1978-2000 and a breakdown of domestic and export market movements.

Barges, railroads, and trucks often compete head-to-head as suppliers of transportation for grain movements. Despite a high degree of competition in some markets, these modes also complement each other. Before a bushel of grain reaches the market, it has often been transported by two or more modes. This balance between competition and integration provides grain shippers with a highly efficient, low-cost system of transportation. The competitiveness of U.S. grains in the world market and the financial well-being of U.S. grain producers depend upon this competitive balance. A highly competitive and efficient transportation system translates into lower shipping costs, smaller marketing margins, and more competitive export prices. Such efficiencies also result in lower food costs for U.S. consumers and higher market prices for U.S. producers. Copies of the report are available only on the Internet: Click on <a href="https://www.ams.usda.gov/tmd/tsb/Modal\_Share.pdf">www.ams.usda.gov/tmd/tsb/Modal\_Share.pdf</a>. For information or comments on the report, contact <a href="https://www.ams.usda.gov/tmd/tsb/Modal\_Share.pdf">Nick.Marathon@usda.gov</a>

### **Grain Transportation Indicators**

Table 1--Grain transport cost indicators\*

|                         |          | Truck    | Rail     | Barge    | Ocean    |          |
|-------------------------|----------|----------|----------|----------|----------|----------|
| Week ending             |          |          |          |          | Gulf     | Pacific  |
|                         | 10/20/04 | 146      | 279      | 185      | 257      | 275      |
| Compared with last week |          | <b>†</b> | <b>†</b> | <b>\</b> | <b>†</b> | <b>†</b> |

\*Indicator: Base year 2000 = 100; Weekly updates include truck = diesel (\$/gallon); rail = nearby secondary rail market (\$/car);

barge = spot Illinois River basis (index = percent of tariff rate); and ocean = routes to Japan (\$/metric ton)

Source: Transportation & Marketing Programs/AMS/USDA

Table 2--Market update: U.S. origins to export position price spreads (\$/bushel)

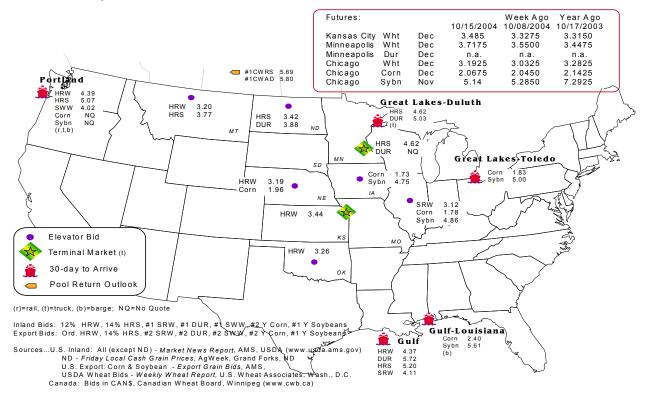
| Commodity | Origindestination | 10/15/2004 | 10/8/2004 |
|-----------|-------------------|------------|-----------|
| Corn      | ILGulf            | -0.62      | -0.60     |
| Corn      | NEGulf            | -0.44      | -0.31     |
| Soybean   | IAGulf            | -0.86      | -0.76     |
| HRW       | KSGulf            | -0.93      | -0.90     |
| HRS       | NDPortland        | -1.65      | -1.52     |

Note: nq = no quote

Source: Transportation & Marketing Programs/AMS/USDA

The **grain bid summary** illustrates the market relationships for commodities. Positive and negative adjustments in differential between terminal and futures markets, and the relationship to inland market points, are indicators of changes in fundamental market supply and demand. The map may be used to monitor market and time differentials.

Figure 1 **Grain bid summary** 



### **Rail Transportation**

Table 3--Rail deliveries to port (carloads)\*

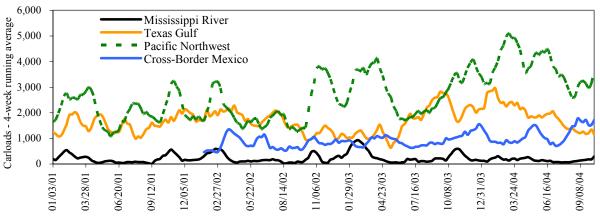
|                         |                  |                   | Cross-Border | Pacific   | Atlantic & |         |
|-------------------------|------------------|-------------------|--------------|-----------|------------|---------|
| Week ending             | Mississippi Gulf | <b>Texas Gulf</b> | Mexico       | Northwest | East Gulf  | Total   |
| 10/13/2004 <sup>p</sup> | 707              | 781               | 2,119        | 5,141     | 270        | 9,018   |
| 10/06/2004 <sup>r</sup> | 121              | 1,703             | 1,394        | 3,908     | 144        | 7,270   |
| 2004 YTD                | 6,872            | 77,085            | 47,046       | 157,554   | 5,724      | 294,281 |
| 2003 YTD                | 11,578           | 66,041            | 34,593       | 113,636   | 12,262     | 238,110 |
| 2004 as % of 2003       | 59               | 117               | 136          | 139       | 47         | 124     |
| Total 2003**            | 14,843           | 88,194            | 48,805       | 157,125   | 20,509     | 329,476 |
| Total 2002              | 12,247           | 83,945            | 40,867       | 110,471   | 20,938     | 268,468 |

 $<sup>(*) \</sup> Incomplete \ Data, as \ of \ 9/22/04, Cross-Border \ movements \ included; (**) \ Excludes \ 53rd \ week; YTD = year-to-date; \ p = preliminary \ data; \ p = prelimin$ 

Source: Transportation & Marketing Programs/AMS/USDA

Railroads originate approximately 40 percent of U.S. grain shipments. Trends in these loadings are indicative of market conditions and expectations.

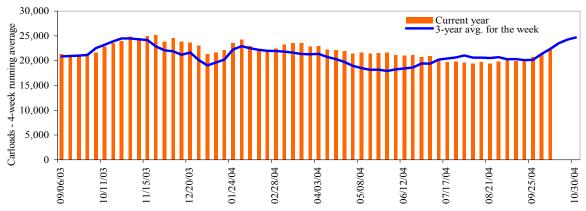
Figure 2 Rail deliveries to port



Source: Transportation & Marketing Programs/AMS/USDA

Figure 3

Total weekly U.S. grain car loadings for Class I railroads



Source: Association of American Railroads

r = revised data

Table 4--Class I rail carrier grain car bulletin (grain carloads originated)

|                     | <b>East</b> West |         |         |        | West    |           |         | Canada  |  |
|---------------------|------------------|---------|---------|--------|---------|-----------|---------|---------|--|
| Week ending         | CSXT             | NS      | BNSF    | KCS    | UP      |           | CN      | CP      |  |
| 10/09/04            | 2,704            | 3,741   | 9,753   | 856    | 6,396   | 23,450    | 4,419   | 4,958   |  |
| This week last year | 3,348            | 4,145   | 9,480   | 595    | 7,670   | 25,238    | 4,910   | 4,155   |  |
| 2004 YTD            | 107,926          | 128,711 | 348,138 | 20,900 | 257,083 | 862,758   | 180,499 | 156,792 |  |
| 2003 YTD            | 107,257          | 127,687 | 304,010 | 17,057 | 258,073 | 814,084   | 143,281 | 147,493 |  |
| 2004 as % of 2003   | 101              | 101     | 115     | 123    | 100     | 106       | 126     | 106     |  |
| Total 2003*         | 146,395          | 171,260 | 416,371 | 24,506 | 336,079 | 1,094,611 | 197,993 | 198,185 |  |

Source: Association of American Railroads (www.aar.org); YTD = year-to-date; \* Excludes 53rd week

Table 5--Rail car auction offerings, week ending 10/16/04 (\$/car)\*

| Delivery for:     | Nov. 04  | Dec. 04  | Jan. 05  |
|-------------------|----------|----------|----------|
| BNSF <sup>1</sup> |          |          |          |
| COT/N. grain      | \$37     | \$42     | \$35     |
| COT/S. grain      | \$206    | \$98     | \$73     |
| $UP^2$            |          |          |          |
| GCAS/Region 1     | no offer | no offer | no offer |
| GCAS/Region 2     | no offer | \$93     | no offer |

<sup>\*</sup>Average premium/discount to tariff, last auction

N includes: ID, MN, MT, ND, OR, SD, WA, WI, WY, and Manitoba, Canada.

S includes: CO, IA, IL, KS, MO, NE, OK, TX, NM, AZ, CA, UT, and NV.

Region 1 includes: AR, IL, LA, MO, NM, OK, TX, WI, and Duluth, MN.

Region 2 includes: CO, IA, KS, MN, NE, WY, and Kansas City and St. Joseph, MO.

Source: Transportation & Marketing Programs/AMS/USDA

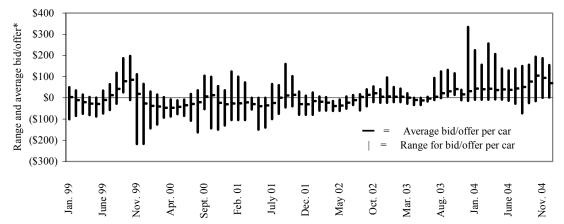
Rail service may be ordered directly from the railroad via **auction** for guaranteed service or tariff for nonguaranteed service or through the secondary market.

<sup>&</sup>lt;sup>1</sup>BNSF - COT = Certificate of Transportation

<sup>&</sup>lt;sup>2</sup>UP - GCAS = Grain Car Allocation System

The **secondary rail market** information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The **auction and secondary rail** values are indicators of rail service quality and demand/supply.

Figure 4 Secondary rail car market, delivery month-year



<sup>\*</sup>up to 6 months of trading

Source: Transportation & Marketing Programs/AMS/USDA

**Average bid/offer** is the simple average of all the weekly bids/offers over the entire period (up to 6 months) for guaranteed railcars that are traded for delivery in a particular month.

**Range for bid/offer** shows the range of average weekly bids/offers over the entire period (up to 6 months) for guaranteed railcars that are traded for delivery in a particular month.

Table 6--Weekly secondary rail car market, week ending 10/15/04 (\$/car)\*

|                       | Delivery period |         |          |          |  |  |  |
|-----------------------|-----------------|---------|----------|----------|--|--|--|
|                       | Nov. 04         | Dec. 04 | Jan. 05  | Feb. 05  |  |  |  |
| BNSF-GF               | \$181           | \$106   | \$125    | \$125    |  |  |  |
| Change from last week | \$81            | \$34    | \$0      | \$0      |  |  |  |
| UP-Pool               | \$187           | \$155   | no offer | no offer |  |  |  |
| Change from last week | \$74            | \$74    | no offer | no offer |  |  |  |

<sup>\*</sup>Average premium/discount to tariff, \$/car-last week

Note: Bids listed are market INDICATORS only & are NOT guaranteed prices,

Missing value = no bid quoted; GF = guaranteed freight; Pool = guaranteed pool

Sources: Transportation and Marketing Programs/AMS/USDA

Data from Atwood/ConAgra, Harvest States Co-op, James B. Joiner Co., Tradewest Brokerage Co.

Table 7--Tariff rail rates for unit and shuttle train shipments\*

| Effective date:    |                    |                 |          |                 |               |
|--------------------|--------------------|-----------------|----------|-----------------|---------------|
| 10/4/2004          | Origin             | Destination     | Rate/car | Rate/metric ton | Rate/bushel** |
| <u>Unit train*</u> |                    |                 |          |                 |               |
| Wheat              | Minneapolis, MN    | Houston, TX     | \$2,120  | \$23.37         | \$0.64        |
|                    | Kansas City, MO    | Galveston, TX   | \$1,920  | \$21.16         | \$0.58        |
|                    | Minneapolis, MN    | Portland, OR    | \$4,148  | \$45.72         | \$1.24        |
|                    | St. Louis, MO      | Houston, TX     | \$2,095  | \$23.09         | \$0.63        |
|                    | Kansas City, MO    | Laredo, TX      | \$2,380  | \$26.23         | \$0.71        |
|                    | Chicago, IL        | Albany, NY      | \$1,834  | \$20.22         | \$0.55        |
|                    | Chicago, IL        | Richmond, VA    | \$2,002  | \$22.07         | \$0.60        |
| Corn               | Minneapolis, MN    | Portland, OR    | \$3,600  | \$39.68         | \$1.01        |
|                    | Chicago, IL        | Baton Rouge, LA | \$2,736  | \$30.16         | \$0.77        |
|                    | Council Bluffs, IA | Baton Rouge, LA | \$2,270  | \$25.02         | \$0.64        |
|                    | Evansville, IN     | Raleigh, NC     | \$1,791  | \$19.74         | \$0.50        |
|                    | Council Bluffs, IA | Stockton, CA    | \$3,606  | \$39.75         | \$1.01        |
|                    | Kansas City, MO    | Dalhart, TX     | \$1,965  | \$21.66         | \$0.55        |
|                    | Columbus, OH       | Raleigh, NC     | \$1,700  | \$18.74         | \$0.48        |
|                    | Des Moines, IA     | Laredo, TX      | \$2,930  | \$32.30         | \$0.82        |
| Soybeans           | Minneapolis, MN    | Portland, OR    | \$3,610  | \$39.79         | \$1.08        |
|                    | Chicago, IL        | Baton Rouge, LA | \$2,736  | \$30.16         | \$0.82        |
|                    | Council Bluffs, IA | Baton Rouge, LA | \$2,799  | \$30.85         | \$0.84        |
|                    | Des Moines, IA     | Laredo, TX      | \$2,930  | \$32.30         | \$0.88        |
|                    | Evansville, IN     | Raleigh, NC     | \$1,791  | \$19.74         | \$0.54        |
|                    | Chicago, IL        | Raleigh, NC     | \$2,391  | \$26.36         | \$0.72        |
| Shuttle Train*     |                    |                 |          |                 |               |
| Wheat              | St. Louis, MO      | Houston, TX     | \$1,895  | \$20.89         | \$0.57        |
|                    | Minneapolis, MN    | Portland, OR    | \$3,993  | \$44.01         | \$1.20        |
| Corn               | Fremont, NE        | Houston, TX     | \$2,665  | \$29.38         | \$0.75        |
|                    | Minneapolis, MN    | Portland, OR    | \$3,450  | \$38.03         | \$0.97        |
| Soybeans           | Council Bluffs, IA | Houston, TX     | \$2,605  | \$28.71         | \$0.73        |
|                    | Minneapolis, MN    | Portland, OR    | \$3,410  | \$37.59         | \$0.95        |

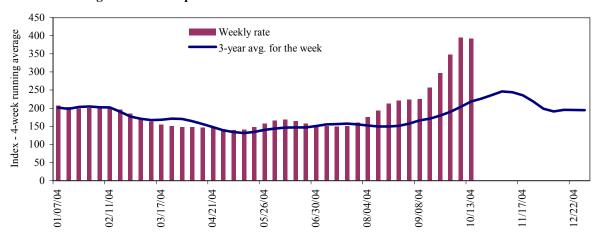
<sup>\*</sup>A unit train refers to shipments of at least 52 cars. Shuttle train rates are available for qualified shipments of more than 100 cars that meet railroad efficiency requirements.

Sources: www.bnsf.com, www.cpr.ca, www.csx.com, www.uprr.com

<sup>\*\*</sup>Approximate load per car = 100 short tons: corn 56 lbs./bu., wheat & soybeans 60 lbs./bu.

### **Barge Transportation**

Figure 5
Illinois River barge rate index - quotes



Note: Index = percent of tariff rate

Source: Transportation & Marketing Programs/AMS/USDA

The **Illinois River barge rate index** averaged 183 percent of the **benchmark tariff rates** between 1999 and 2001, based on weekly market quotes. The **index**, along with **rate quotes** and **futures market** bids are indicators of grain transport supply and demand.

Table 8--Barge rate quotes: southbound barge freight

| Location        | 10/13/2004 | 10/6/2004 | Nov '04 | Jan '04 |
|-----------------|------------|-----------|---------|---------|
| Twin Cities     | 335        | 400       | 313     | 0       |
| Mid-Mississippi | 338        | 403       | 278     | 0       |
| Illinois River  | 340        | 419       | 273     | 243     |
| St. Louis       | 307        | 403       | 233     | 175     |
| Lower Ohio      | 333        | 429       | 257     | 192     |
| Cairo-Memphis   | 287        | 397       | 222     | 169     |

Index = percent of tariff, based on 1976 tariff benchmark rate Source: Transportation & Marketing Programs/AMS/USDA

Benchmark tariff rates

# Calculating barge rate per ton: (Index \* 1976 tariff benchmark rate per ton)/100

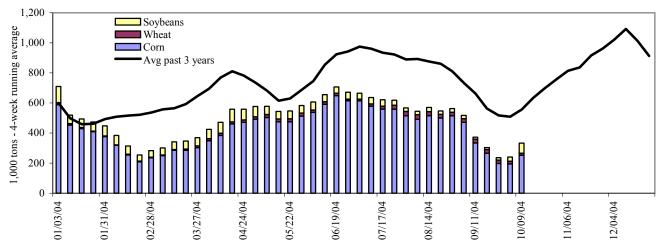
Select applicable index from market quotes included in tables on this page. The 1976 benchmark rates per ton are provided in map (see figure 6).

Note: The Illinois barge rate is for Beardstown, IL, La Grange Lock & Dam (L&D 8).



Figure 7

Barge movements on the Mississippi River (Lock 27 - Granite City, IL)



Source: Transportation & Marketing Programs/AMS/USDA

Table 9--Barge grain movements (1,000 tons)

| Week ending 10/09/2004 | Corn   | Wheat | Soybean | Other | Total  |
|------------------------|--------|-------|---------|-------|--------|
| Mississippi River      |        |       |         |       |        |
| Rock Island, IL (L15)  | 54     | 5     | 62      | 0     | 120    |
| Winfield, MO (L25)     | 210    | 5     | 133     | 8     | 356    |
| Alton, IL (L26)        | 410    | 5     | 179     | 8     | 601    |
| Granite City, IL (L27) | 403    | 5     | 163     | 8     | 578    |
| Illinois River (L8)    | 138    | 13    | 23      | 0     | 174    |
| Ohio River (L52)       | 147    | 4     | 92      | 20    | 263    |
| Arkansas River (L1)    | 0      | 26    | 29      | 0     | 55     |
| 2004 YTD               | 19,822 | 2,357 | 3,365   | 584   | 26,128 |
| 2003 YTD               | 22,289 | 2,365 | 6,021   | 597   | 31,272 |
| 2004 as % of 2003 YTD  | 89     | 100   | 56      | 98    | 84     |
| Total 2003             | 29,898 | 2,787 | 9,146   | 695   | 42,526 |

 $YTD\ (year-to-date)\ and\ calendar\ year\ total\ includes\ Miss/27,\ Ohio/52,\ and\ Ark/1.$ 

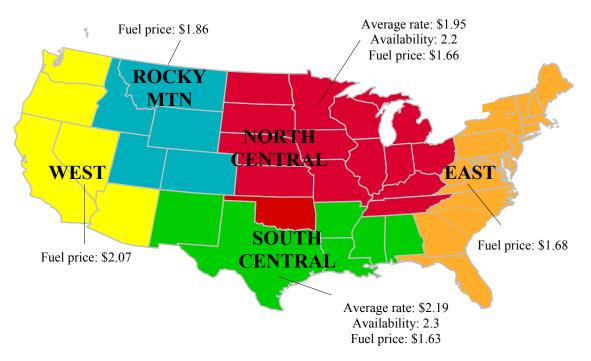
"Other" refers to oats, barley, sorghum, and rye.

 $Source:\ U.S.\ Army\ Corp\ of\ Engineers\ (www.mvr.usace.army.mil/mvrimi/omni/webrpts/default.asp)$ 

Note: Total may not add exactly, due to rounding

### **Truck Transportation**

Figure 8 U.S. grain truck market advisory, 2<sup>nd</sup> quarter 2004\*



<sup>\*</sup>Average rate per loaded mile, based on truck rates for trips of 25, 100, and 200 miles

Note: Fuel prices are a quarterly average (unit per gallon)

Fuel price data source: Energy Information Administration, U.S. Department of Energy, www.eia.doe.gov

Table 10--U.S. grain truck market overview, 2<sup>nd</sup> quarter 2004

| Table 10U.S. grain truck market overview, 2 quarter 2004 |          |                |           |                    |   |            |  |  |
|--|----------|----------------|-----------|--------------------|---|------------|--|--|
| Region/commodity*  | 25 miles | 100 miles      | 200 miles | Truck availability | Truck activity Future truck acti          |            |  |  |
|  |          |                |           | Rating com         | Rating compared to same quarter last year |            |  |  |
|  |          | Rate per mile  |           | 1=Very easy        | 1=M                                       | uch lower  |  |  |
|  |          | race per inite |           | to                 |   | to         |  |  |
|  |          |                |           | 5=Very difficult   | 5=M                                       | uch higher |  |  |
| National average <sup>1</sup>                            | 2.99     | 1.98           | 1.73      | 2.2                | 3.1                                       | 3.2        |  |  |
| North Central region <sup>2</sup>                        | 2.51     | 1.79           | 1.54      | 2.2                | 3.1                                       | 3.2        |  |  |
| Corn   | 2.68     | 2.08           | 1.75      | 2.3                | 3.5                                       | 3.3        |  |  |
| Wheat  | 2.18     | 1.53           | 1.36      | 2.0                | 2.9                                       | 3.0        |  |  |
| Soybean  | 2.68     | 2.08           | 1.75      | 2.3                | 3.3                                       | 3.3        |  |  |
| South Central region <sup>2</sup>                        | 2.95     | 1.87           | 1.75      | 2.3                | 3.0                                       | 3.3        |  |  |
| Corn   | 2.95     | 1.87           | 1.75      | 2.3                | 3.0                                       | 3.3        |  |  |
| Wheat  | n/a      | n/a            | n/a       | 2.0                | 3.0                                       | 3.0        |  |  |
| Soybean  | 3.83     | 2.25           | 2.13      | 2.3                | 3.0                                       | 3.5        |  |  |

Rates are based on trucks with 80,000 lb weight limit

Source: Transportation and Marketing Programs/AMS/USDA

<sup>\*</sup>Commodity averages based on truck rates for top producing states based on National Agricultural Statistics Service/USDA

<sup>&</sup>lt;sup>1</sup>National average includes: AR, CO, IA, IL, IN, KS, LA, MN, MS, ND, NE, OH, OK, OR, SD, TX, and WA.

<sup>&</sup>lt;sup>2</sup>Commodity rates per mile include the average of the top 3 producing states within the region.

The weekly **diesel price** provides a proxy for trends in U.S. truck rates. Diesel fuel is a significant expense for truck grain movements, accounting for 37 percent of the estimated variable cost.

Table 11--Retail on-highway diesel prices\*, week ending 10/18/04 (US\$/gallon)

|        |                  |       | Chang    | e from   |
|--------|------------------|-------|----------|----------|
| Region | Location         | Price | Week ago | Year ago |
| I      | East Coast       | 2.179 | 0.079    | 0.687    |
|        | New England      | 2.290 | 0.078    | 0.702    |
|        | Central Atlantic | 2.267 | 0.067    | 0.673    |
|        | Lower Atlantic   | 2.131 | 0.084    | 0.691    |
| II     | Midwest          | 2.161 | 0.106    | 0.653    |
| III    | Gulf Coast       | 2.115 | 0.082    | 0.663    |
| IV     | Rocky Mountain   | 2.219 | 0.087    | 0.681    |
| V      | West Coast       | 2.337 | 0.061    | 0.760    |
|        | California       | 2.394 | 0.072    | 0.761    |
| Total  | U.S.             | 2.180 | 0.088    | 0.678    |

<sup>\*</sup>Diesel fuel prices include all taxes.

Source: Energy Information Administration/U.S. Department of Energy (www.eia.doe.gov)

# **Grain Exports**

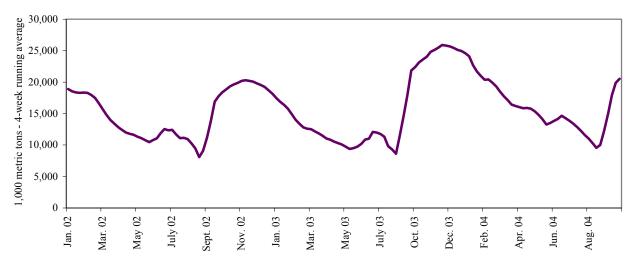
Table 12--U.S. export balances (1,000 metric tons)

|                                | Wheat  |       |       |       |       | Corn      | Soybeans | Total  |         |
|--------------------------------|--------|-------|-------|-------|-------|-----------|----------|--------|---------|
| Week ending 1/                 | HRW    | SRW   | HRS   | SWW   | DUR   | All wheat |          |        |         |
| 10/7/2004                      | 1,775  | 623   | 1,336 | 1,068 | 69    | 4,870     | 7,934    | 8,694  | 21,498  |
| This week year ago             | 2,161  | 322   | 1,066 | 816   | 192   | 4,556     | 9,229    | 10,333 | 24,118  |
| Cumulative exports-crop year 2 | /      |       |       |       |       |           |          |        |         |
| 2004/05 YTD                    | 3,683  | 1,765 | 3,090 | 1,786 | 251   | 10,574    | 4,765    | 1,681  | 17,020  |
| 2003/04 YTD                    | 4,462  | 1,606 | 2,540 | 1,452 | 463   | 10,522    | 4,661    | 1,436  | 16,619  |
| 2004/05 as % of 2003/04        | 83     | 110   | 122   | 123   | 54    | 100       | 102      | 117    | 102     |
| 2003/04 Total                  | 12,697 | 3,785 | 6,928 | 4,889 | 1,053 | 29,353    | 47,704   | 24,102 | 101,159 |
| 2002/03 Total                  | 6,896  | 2,899 | 6,645 | 3,517 | 720   | 20,677    | 39,646   | 28,908 | 89,231  |

Note: YTD = year-to-date. Crop year: wheat = 6/01-5/31, corn & soybeans = 9/01-8/31, 1/= Current outstanding unshipped export sales to date

Source: Foreign Agricultural Service/USDA (www.fas.usda.gov)

Figure 9
U.S. grain, unshipped export balances (wheat, corn, and soybean sales)



Source: Foreign Agricultural Service/USDA (www.fas.usda.gov)

<sup>2/ =</sup> New crop year in effect for corn and soybean sales

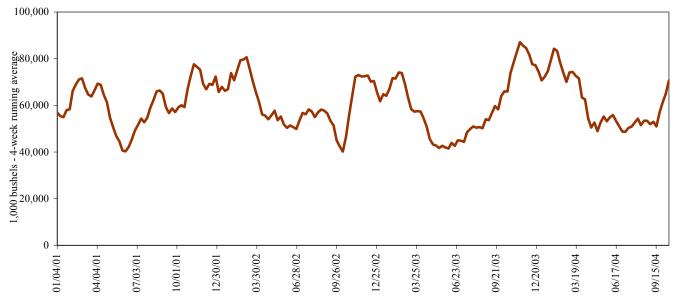
Table 13-Select U.S. port regions - grain inspections for export (1,000 metric tons)

|                   | Pa    | acific Reg | ion      | Mississippi Gulf |        | Texas Gulf |       | Port Region total |          |         |             |       |
|-------------------|-------|------------|----------|------------------|--------|------------|-------|-------------------|----------|---------|-------------|-------|
| Week ending       | Wheat | Corn       | Soybeans | Wheat            | Corn   | Soybeans   | Wheat | Corn              | Soybeans | Pacific | Mississippi | Texas |
| 10/14/04          | 200   | 57         | 341      | 141              | 445    | 494        | 137   | 0                 | 0        | 598     | 1,080       | 137   |
| 2004 YTD          | 9,647 | 8,251      | 2,295    | 6,095            | 25,555 | 8,432      | 6,715 | 51                | 18       | 20,193  | 40,082      | 6,784 |
| 2003 YTD          | 7,085 | 4,197      | 3,349    | 4,988            | 23,879 | 12,508     | 5,304 | 63                | 23       | 14,631  | 41,374      | 5,389 |
| 2004 as % of 2003 | 136   | 197        | 69       | 122              | 107    | 67         | 127   | 82                | 81       | 138     | 97          | 126   |
| 2003 Total        | 8,764 | 5,450      | 5,141    | 5,883            | 30,903 | 19,374     | 7,011 | 229               | 69       | 19,355  | 56,160      | 7,309 |

Source: Federal Grain Inspection Service/USDA (www.usda.gov/gipsa); YTD: year-to-date

The United States exports approximately one-quarter of the grain it produces. On average, it includes nearly 45 percent of U.S.-grown wheat, 35 percent of U.S.-grown soybeans, and 20 percent of the U.S.-grown corn. Over 60 percent of these U.S. export grain shipments departed through the Mississippi Gulf region in 2003.

Figure 10 U.S. grain inspected for export (wheat, corn, and soybeans)



Source: Federal Grain Inspection Service/USDA (www.usda.gov/gipsa)

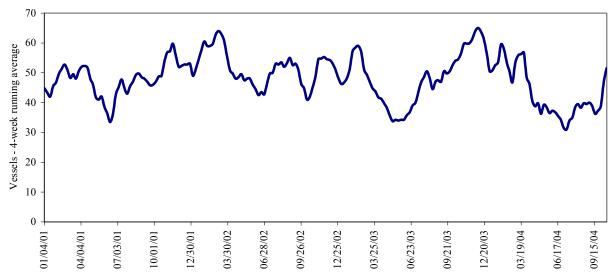
# **Ocean Transportation**

Table 14--Weekly port region grain ocean vessel activity (number of vessels)

|            |         |        |          | Pacific   | Vancouver |
|------------|---------|--------|----------|-----------|-----------|
|            |         | Gulf   |          | Northwest | B.C.      |
|            |         | Loaded | Due next |           |           |
| Date       | In port | 7-days | 10-days  | In port   | In port   |
| 10/14/2004 | 34      | 50     | 83       | 16        | 6         |
| 10/7/2004  | 17      | 66     | 96       | 9         | 9         |
| 2003 range | (1147)  | (3076) | (3993)   | (313)     | (115)     |
| 2003 avg.  | 31      | 49     | 62       | 9         | 6         |

Source: Transportation & Marketing Programs/AMS/USDA

Figure 11 **Gulf Port grain vessel loading (past 7 days)** 



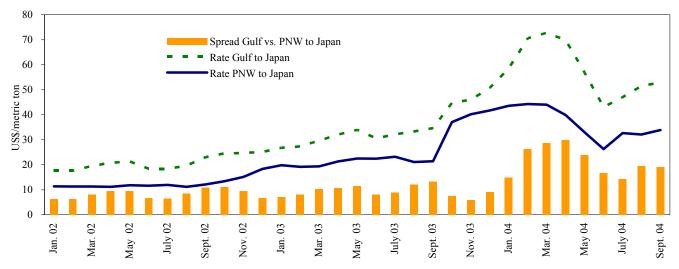
Source: Transportation & Marketing Programs/AMS/USDA

Table 15--Quarterly ocean freight rates (average rates & percentage changes) (US\$/metric ton)

| Countries/<br>regions | 2004<br>3rd qtr | 2003<br>3rd qtr | Percent<br>change | Countries/<br>regions | 2004<br>3rd qtr | 2003<br>3rd qtr | Percent<br>change |
|-----------------------|-----------------|-----------------|-------------------|-----------------------|-----------------|-----------------|-------------------|
| Gulf to               | _               |                 |                   | Pacific NW to         | _               |                 |                   |
| Japan                 | \$50.08         | \$33.83         | 48                | Japan                 | \$37.00         |                 |                   |
| China                 | \$54.00         | \$34.00         | 59                |                       |                 |                 |                   |
| N. Europe             |                 | \$22.88         |                   | Argentina/Brazil to   |                 |                 |                   |
| N. Africa             |                 | \$25.50         |                   | Med. Sea              | \$46.92         | \$24.50         | 92                |
| Med. Sea              |                 | \$24.88         |                   | China                 |                 | \$34.75         |                   |

Source: Maritime Research, Inc. (www.maritime-research.com)

Figure 12 **Grain vessel rates, U.S. to Japan** 



Source: Baltic Exchange (www.balticexchange.com)

Table 16--Ocean freight rates for selected shipments, week ending 10/16/04

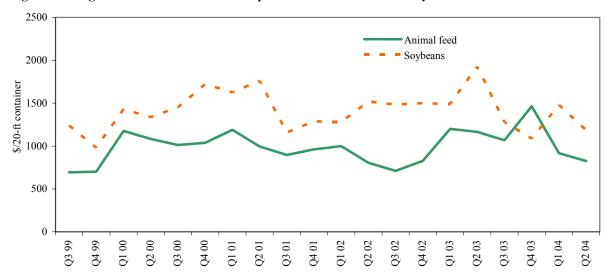
| Export region | Import region | Grain     | Month     | Volume loads<br>(metric tons) | Freight rate (\$/metric ton) |
|---------------|---------------|-----------|-----------|-------------------------------|------------------------------|
| U.S. Gulf     | Ecuador*      | Wheat     | Nov 15/25 | 21,000                        | 52.93                        |
| U.S. Gulf     | Guatemala*    | Wheat     | Oct 15/20 | 6,600                         | 75.71                        |
| U.S. Gulf     | China         | Hvy Grain | Oct 20/30 | 55,000                        | 54.00                        |
| U.S. Gulf     | China         | Hvy Grain | Oct 25/31 | 57,000                        | 52.25                        |
| U.S. Gulf     | Peru*         | Wheat     | Oct 15/25 | 28,769                        | 62.45                        |
| U.S. Gulf     | Nicaragua*    | Corn      | Oct 10/20 | 21,500                        | 45.98                        |
| U.S. Gulf     | El Salvador*  | Wheat     | Oct 10/20 | 26,000                        | 57.25                        |

Rates shown are for metric ton (2,204.62 lbs. = 1 metric ton), F.O.B., except where otherwise indicates; op = option

Source: Maritime Research Inc. (www.maritime-research.com)

<sup>\*</sup>Most food aid from the United States is required to be shipped on U.S. flag vessels. The vessels are limited in availability resulting in higher rates. In addition, destinations receiving food aid generally lack adequate port unloading facilities, requiring the vessel to remain in port for a longer duration than normal.

Figure 13
Weighted average rates<sup>1</sup> for containerized shipments of animal feed and soybeans to selected Asian countries



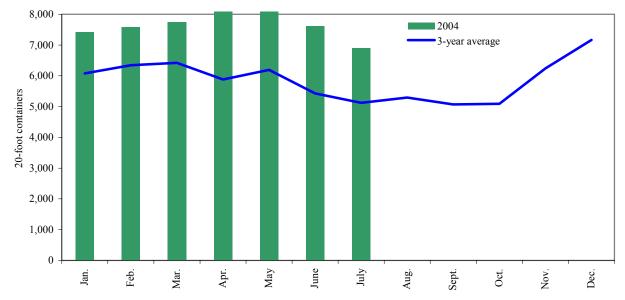
<sup>&</sup>lt;sup>1</sup>Animal Feed: Busan-Korea (14%), Kaohsiung-Taiwan (28%), Tokyo-Japan (36%), Hong Kong (19%), Bangkok-Thailand (3%) and soybeans: Busan-Korea (5%), Keelung-Taiwan (35%), Tokyo-Japan (60%)

Quarter 2, 2004.

Source: Ocean Rate Bulletin, Transportation & Marketing Programs/AMS/USDA

Container ocean freight rates – average rate per twenty-foot equivalent unit (TEU) weighted by shipping line market share and trade route.

Figure 14
Monthly shipments of containerized grain for 2004 compared with a 3-year average



Note: PIERS data is available with a lag of approximately 40 days

Source: Port Import Export Reporting Service (PIERS), Journal of Commerce

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Agricultural Container Indicators Ocean Rate Bulletin http://www.ams.usda.gov/tmd2/agci/ http://www.ams.usda.gov/tmd/Ocean/index.asp

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